

MICROWAVE REMOTE SENSING OF COMETS

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Microwave remote sensing of comets complements remote sensing methods in other spectral regions and provides some unique capabilities as well. This paper will focus on the special role that microwaves play in the study of comets. The study of comets using ground based observations in the microwave spectral range($10\text{ cm} < \lambda < 100\text{ }\mu\text{m}$) will be reviewed briefly. Scientific objectives of the microwave instrument (MIRO) on the ROSETTA Orbiter spacecraft to comet Wirtanen will be discussed in detail.